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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,010	12/23/2005	Akito Yasuhara	Q92272	1050
23373 7590 05/07/2007 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAMINER	
			LAO, MARIALOUISA	
			ART UNIT	. PAPER NUMBER
			1621	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/562,010	YASUHARA ET AL.	
Office Action Summary	Examiner	Art Unit	
	MLouisa Lao, Ph.D.	1621	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1)☐ Responsive to communication(s) filed on 2a)☐ This action is FINAL. 2b)☒ This 3)☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposition of Claims		·	
4) Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-25 are subject to restriction and/or expending in the application.	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the formula of the following of behind in abeyance. See the following of the drawing	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(a)			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	

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DETAILED ACTION

1. Claims 1-25 are currently pending in the instant application and are subject to a <u>lack of unity restriction</u> requirement.

2. Priority

Receipt is acknowledged of PCT/JP04/09384 filed 6/25/2004 and Foreign Application Japan 2003/181931 filed 6/26/2003, submitted under 35 U.S.C. §§ 119(a)-(d), which papers have been placed of record in the file.

3. Election/Restrictions

Restriction is required under 35 U.S.C. § 121 and § 372.

Claims 1-25 are drawn to more than one inventive concept (as defined by PCT Rule 13), and accordingly, a restriction is required according to the provision of PCT Rule 13.2.

PCT Rule 13.2 states that the international application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept (requirement of unity of invention).

PCT Rule 13.2 states unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features.

Annex B, Part 1 (b), provides that "special technical features" mean those technical features, which, as a whole, define a contribution over the prior art.

Annex B, Part 1 (e), provides combinations of different categories of claims and

- "The method for determining unity of invention under Rule 13 shall be construed as permitting, in particular, the inclusion of any one of the following combinations of claims of different categories in the same international application:
- (i) in addition to an independent claim for a given product, an independent claims for a process specially adapted for the manufacture of the said product, and an independent claim for use of the said product, or
- (ii) in addition to an independent claim for a given process, an independent claim for an apparatus or means specially designed for carrying out the said process, or
- (iii) in addition to an independent claim for a given product, and independent claim for a process specially adapted for the manufacture of the said product, and an independent claim for an apparatus or means specially designed for carrying out the said process"

This application contains the following illustrative inventions or groups of inventions that are not so linked as to form a single general inventive concept under PCT Rule 13.1. Further due to numerous and widely divergent variables in the substituents of Formula I-II, for example: R1-R12, X and Y, the derivatives, pharmaceutically acceptable salts/hydrates thereof and drug in the claims, as recited, a precise listing of inventive sub-groups cannot be made.

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The following sub-groups are exemplary only for Formula I,

Group I: R^1 and $R^2 = H$, X = H, $Y = -S(O)_nR^7$ where n=1 and R^7 =phenyl group

Group II: R^1 and $R^2 = H$, X = F, $Y = -S(O)_nR^7$ where n=1 and R^7 =phenyl group

Group III: R^1 and $R^2 = H$, X = H, $Y = -S(O)_n R^7$ where n=2 and R^7 =phenyl group

Group IV: R^1 and $R^2 = H$, X = F, $Y = -S(O)_nR^7$ where n=2 and R^7 =phenyl group

Group V: R^1 and $R^2 = H$, X = H, Y = heteroaromatic group

Group VI: R^1 and $R^2 = H$, X = F, Y = heteroaromatic group

Group VII: R^1 and R^2 = different, X = H, $Y = -S(O)_n R^7$ where n=1 and R^7 =phenyl group

Group VIII: R^1 and R^2 = different, X = F, $Y = -S(O)_n R^7$ where n=1 and R^7 =phenyl group

Group IX: R^1 and R^2 = different, X = H, $Y = -S(O)_nR^7$ where n=2 and R^7 =phenyl group

Group X: R^1 and R^2 = different, X = F, $Y = -S(O)_n R^7$ where n=2 and R^7 =phenyl group

Group XI: R^1 and R^2 = different, X = H, Y = heteroaromatic group

Group XII: R^1 and $R^2 = H$, X = F, Y = heteroaromatic group

In accordance with 37 CFR § 1.499, applicant is required, in reply to this action, to elect a single disclosed species (and/or sub-group) to which the claims must be restricted, as exemplified by a compound as recited in claims 22 and 23. Again, this is not an exhaustive list, as it would be impossible to produce such a list under the time constraints due to the large volume of subject matter instantly claimed. Therefore, applicant may choose to elect a single disclosed species (and/or sub-group) in conjunction with the elected invention (a product and a method of use) by identifying another specific embodiment, i.e. a value for each substituent etc. not listed in the exemplary groups of the invention and Examiner will endeavor to group the same.

The claims herein lack unity of invention under PCT Rules 13.1 and 13.2 because, pursuant to 37 C.F.R. 1.475(a) the exemplary sub-groups shown above lack unity of invention since, under 37 CFR 1.475:

Where a group of inventions is claimed in an application, the requirement of unity of invention shall be fulfilled only when there is a technical feature among those inventions involving one or more of the same or corresponding special technical features...those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

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The structural moiety common to such subgroups is lacking.

The variables affect the structural core such that the core represents a plethora of compounds; which are patentably distinct and require separate search considerations, since the species of prior art does not necessarily anticipate or render obvious the species of the instant claims.

Therefore, Claims 1-25 are not so linked as to form a single general inventive concept and there is a lack of unity of invention. The variables vary extensively and when taken as a whole result in vastly different compounds. Additionally, the vastness of the claimed subject matter and the complications in understanding the claimed subject matter impose a serious burden on the search and examination of the claimed subject matter. Illustratively, a search on the compounds of formula I, with the various substituents, would mean numerous permutations.

Therefore, since the claims do not relate to a single general inventive concept under PCT Rule] 3.1 and lack the same or corresponding special technical features, the claims lack unity of invention and should be limited to a process for a product.

Furthermore, with respect to exemplary groups above, even if unity of invention under 37 CFR 1.475(a) is not lacking, under 37 CFR 1.475(b) a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations:

A product and a process specially adapted for the manufacture of said product; or

A product and process of use of said product; or

A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or

A process and an apparatus or means specially designed for carrying out the said process; or

A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specially designed for carrying out the said process.

Moreover, according to 37 CFR 1.475(c),

If an application contains claims to more or less that one of the combinations of categories of invention set forth in paragraph (b), unity of invention might not be present.

In the instant case the claims are drawn to more than a product and a method of use, and according to 37 CFR 1.475(e),

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim.

As a result, since the variables represent the substituents, which result in a plethora of compounds and products defined by such sub-groups thereto, which are distinct inventions and require different searches, examinations and classifications. Therefore, the claims lack unity of invention and applicant is required to elect a single invention.

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2. A telephone call was not made to applicants' agent to request an oral election to the above

restriction requirement, due to the complexity of the art. MPEP § 812.01

Applicant is advised that the reply to this requirement to be complete must include (i) an

election of a species or invention to be examined even though the requirement be traversed (37

CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve

a right to petition, the election must be made with traverse. If the reply does not distinctly and

specifically point out supposed errors in the restriction requirement, the election shall be treated

as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably

distinct, applicant should submit evidence or identify such evidence now of record showing the

inventions or species to be obvious variants or clearly admit on the record that this is the case. In

either instance, if the examiner finds one of the inventions unpatentable over the prior art, the

evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MLouisa Lao, Ph.D. whose telephone number is 571-272-9930. The examiner can normally

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be reached on Mondays to Fridays from 8:30am to 5:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page, can be reached on 571-272-0602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

`mll04252007 MLouisa Lao, Ph.D. Examiner Art Unit 1621

for THURMAN PAGE

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